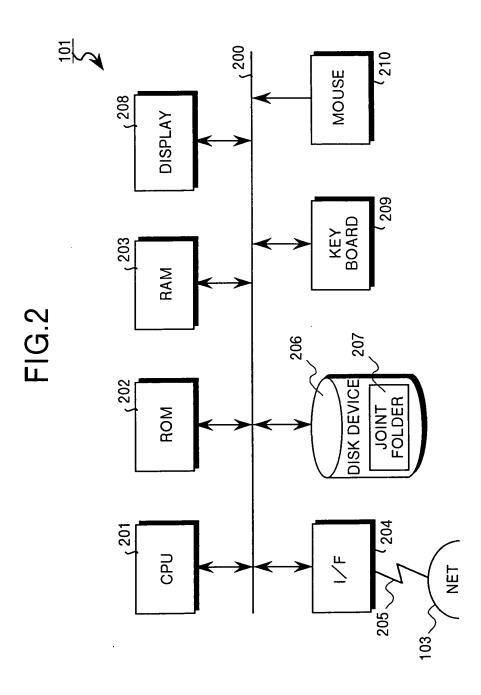
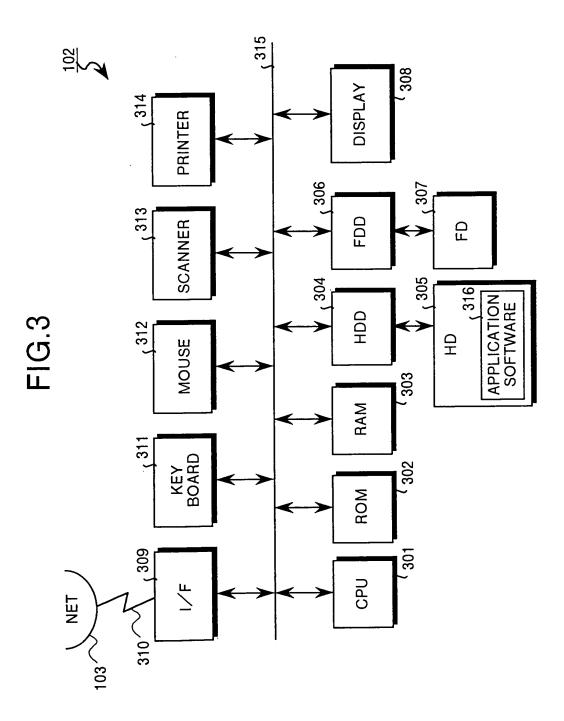
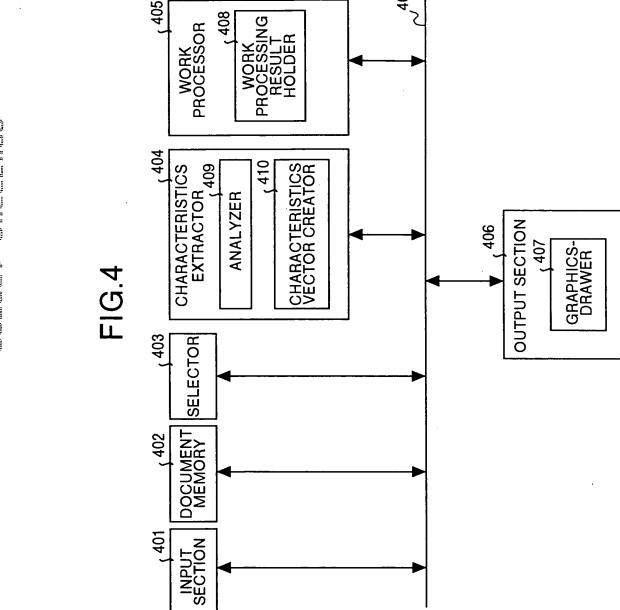


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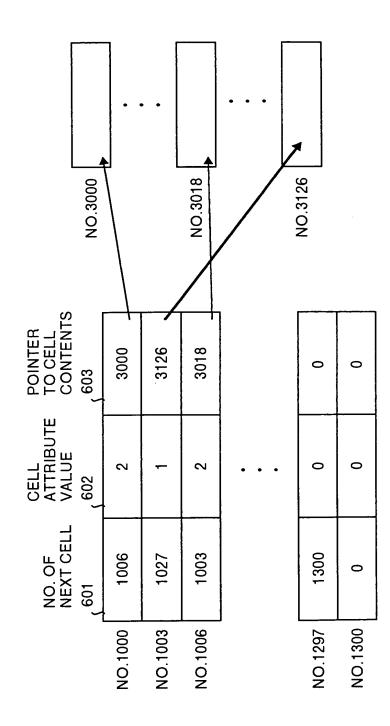




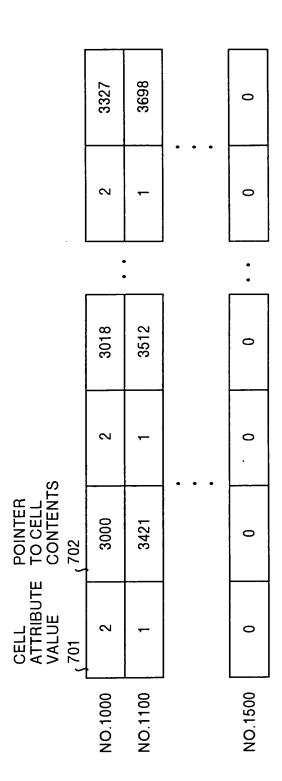
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ITEM NAME	ITEM VALUE
APPLICATION NO.	JAPANESE PATENT APPLICATION LAID-OPEN NO. 10-00000
DATE OF APPLICATION	JANUARY 1, 1998
NUMBER OF CLAIMS	င
NAME OF INVENTION	IMAGE CREATING DEVICE
ADVANTAGES	THE IMAGE CREATING DEVICE OF THE PRESENT INVENTION COMPRISES

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805 806	Z	CONTENTS	LARGE NOISE POLLUTION	EXHAUST IS BLACK	VEHICLE PAINT CHANGES COLOR	OIL LEAKS	HEATER DOES NOT FUNCTION	LARGE NOISE POLLUTION	ENGINE WILL NOT START	OVERHEAT OCCURS	BATTERY IS DEAD	ENGINE WILL NOT START	EXHAUST IS BLACK	RADIO DOES NOT WORK	PAINT IS PEELING	HEATER DOES NOT FUNCTION	
8	کر	YEAR	1993	1995	1996	1995	1992	1994	1996	1997	1992	1993	1994	1997	1996	1995	
804	کر	TYPE OF VEHICLE	ABC1800	ABC2000	ABC1800	DEF1600	KLM1200	DEF1600	DEF1600	ABC1800	XYZ3000	KLM1200	ABC1600	DEF1600	ABC1800	XYZ3000	
803	2	SALES OFFICE	AICHI	TOYAMA	TOKYO	SAPPORO	FUKUOKA	NOBORIBETSU	NAGANO	TOKYO	TAKAMATSU	NAGASAKI	OSAKA	NAGANO	MORIOKA	SENDAI	
1 802	کر	DATE RECEIVED	1997/3/5	1997/3/5	1997/3/5	1997/3/5	1997/3/5	1997/3/5	1997/3/5	1997/3/5	1997/3/6	1997/3/6	1997/3/6	1997/3/6	1997/3/6	1997/3/6	-
801	کر	NO.	-	2	က	4	5	9	7	ω	6	10	7	12	13	7	

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CONTENTS	EXHAUST IS BLACK 901	OIL LEAKS	LARGE NOISE POLICUTION	L VEHICLE PAINT CHANGES COLOR	OVERHEAT OCCURS	PANATISPEECING	BATTERY IS DEAD	EXHAUST IS BLACK	LARGE NOISE POLLUTION	LARGE NOISE POLLUTION	WEHIOUE PAINT CHANGES COLOS	Engine will not start	BATTERY IS DEAD	OIL LEAKS
YEAR	1994	1993	1993	1996	1997	1996	1994	1995	1996	1993	1996	1997	1994	1995
TYPE OF VEHICLE	ABC1600	ABC1600	ABC1800	ABC1800	ABC1800	ABC1800	ABC1800	ABC1800	ABC1800	ABC1800	ABC1800	ABC1800	ABC1800	DEF1600
SALES	_	NAGANO	AICHI	TOKYO	TOKYO	MORIOKA	OSAKA	HIROSHIMA	YOKOHAMA	AICHI	TOKYO	TOYAMA	OSAKA	SAPPORO
DATE	1997/3/6	1997/4/21	1997/3/5	1997/3/5	1997/3/5	1997/3/6	1997/3/10	1997/3/12	1997/3/17	1997/3/20	1997/3/22	1997/3/24	1997/3/24	1997/3/5
Ŏ.	Ξ	53	-	က	8	13	18	28	35	33	42	46	47	4

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1001	CONTENTS	EXMAUST IS BLACK	GICLEAKS	Large ngise pollution	VEHICLE PAINT CHANGES COUDS	OVERHEAT DODGES	PAINT IS PEELING	BATTERY IS DEAD	EXHAUST IS BLACK	LARGE NOISE POLLUTION	LARGE NOISE POLLUTION	VEHICLE PAINT CHANGES COLOR	ENGINE WILL NOT START	BATTERY IS DEAD	GILLEAKS	
	YEAR	1994	1993	1993	1996	1997	1996	1994	1995	1996	1993	1996	1997	1994	1995	
	TYPE OF VEHICLE	ABC1600	ABC1600	ABC1800	ABC1800	ABC1800	ABC1800	ABC1800	ABC1800	ABC1800	ABC1800	ABC1800	ABC1800	ABC1800	DEF1600	
	SALES OFFICE	OSAKA	NAGANO	AICHI	TOKYO	TOKYO	MORIOKA	OSAKA	HIROSHIMA	YOKOHAMA	AICHI	TOKYO	TOYAMA	OSAKA	SAPPORO	
	DATE RECEIVED	1997/3/6	1997/4/21	1997/3/5	1997/3/5	1997/3/5	1997/3/6	1997/3/10	1997/3/12	1997/3/17	1997/3/20	1997/3/22	1997/3/24	1997/3/24	1997/3/5	
	NO.	-	53	-	က	ω	13	18	28	35	33	42	46	47	4	V

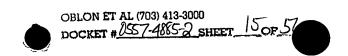
ľ	
	CONTENTS OF EXTRACTION PROCESSING
-	WORDS IN LETTER ROW
2	NUMBER OF WORDS IN LETTER ROW
3	NUMBER OF LETTER OF WORDS IN LETTER ROW
4	NUMBER OF TIMES WORDS IN LETTER ROW APPEAR
5	PARTS OF SPEECH OF WORDS IN LETTER ROW
9	DATA REPRESENTING RELATIONSHIP BETWEEN WORDS IN LETTER ROW
7	NUMBER OF SENTENCES IN LETTER ROW
8	NUMBER OF LETTERS IN SENTENCES IN LETTER ROW
9	NUMBER OF CLAUSES OF SENTENCES IN LETTER ROW
10	RELATIONSHIP BETWEEN SENTENCES IN LETTER ROW
•••	···

	CONTENTS OF WORK PROCESSING
1	CLASSIFICATION
2	RETRIEVAL
3	REARRANGEMENT
4	EXTRACT REPRESENTATIVE VALUE
5	EXTRACT MAXIMUM VALUE
6	EXTRACT MINIMUM VALUE
7	CALCULATION
:	:

	NOISE POLLUTION	SI	LARGE	PAINT	COLOR CHANGE	CHANGE	ОVЕВНЕАТ	occurs	PEELING	OVERHEAT OCCURS PEELING BATTERY	DEAD	EXHAUST BLACK	BLACK
LARGE NOISE POLLUTION	1	1	+	0	0	0	0	0	0	0	0	0	0
VEHICLE PAINT CHANGES COLOR	0	-	0	1	l	1	0	0	0	0	0	0	0
OVERHEAT OCCURS	0	1	0	0	0	0	1	1	0	0	0	0	0
PAINT IS PEELING	0	-	0	1	0	0	0	0	1	0	0	0	0
BATTERY IS DEAD	0	-	0	0	0	0	0	0	0	-	-	0	0
EXHAUST IS BLACK	0	1	0	0	0	0	0	0	0	0	0	1	-



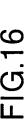
WORD	WORD ID
NOISE POLLUTION	1
IS	2
LARGE	3
PAINT	4
COLOR	5
CHANGE	6
OVERHEAT	7
OCCURS	8
PEELING	9
BATTERY	10
DEAD	11
EXHAUST	12
BLACK	13



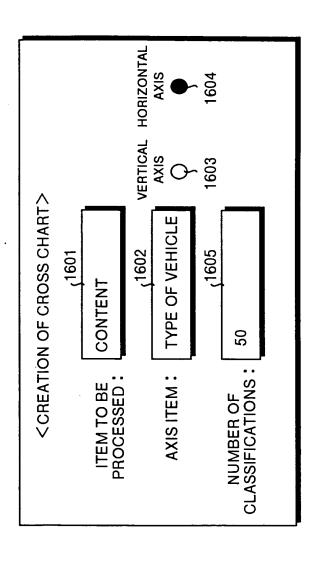
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	CLUSTER NUMBER	S	-	7	Ξ	2	2	8	14	12	8	_	9	7	2
5	CONTENTS	LARGE NOISE POLLUTION	EXHAUST IS BLACK	VEHICLE PAINT CHANGES COLOR	OIL LEAKS	HEATER DOES NOT FUNCTION	LARGE NOISE POLLUTION	ENGINE WILL NOT START	OVERHEAT OCCURS	BATTERY IS DEAD	ENGINE WILL NOT START	EXHAUST IS BLACK	RADIO DOES NOT WORK	PAINT IS PEELING	HEATER DOES NOT FUNCTION
	YEAR	1993	1995	1996	1995	1992	1994	1996	1997	1992	1993	1994	1997	1996	1995
	TYPE OF VEHICLE	ABC1800	ABC2000	ABC1800	DEF1600	KLM1200	DEF1600	DEF1600	ABC1800	XYZ3000	KLM1200	ABC1600	DEF1600	ABC1800	XYZ3000
	SALES OFFICE	AICHI	TOYAMA	TOKYO	SAPPORO	FUKUOKA	NOBORIBETSU	NAGANO	TOKYO	TAKAMATSU	NAGASAKI	OSAKA	NAGANO	MORIOKA	SENDAI
	DATE RECEIVED	1997/3/5	1997/3/5	1997/3/5	1997/3/5	1997/3/5	1997/3/5	1997/3/5	1997/3/5	1997/3/6	1997/3/6	1997/3/6	1997/3/6	1997/3/6	1997/3/6
	Ö.	-	2	က	4	ည	9	7	æ	6	10	Ξ	12	13	14

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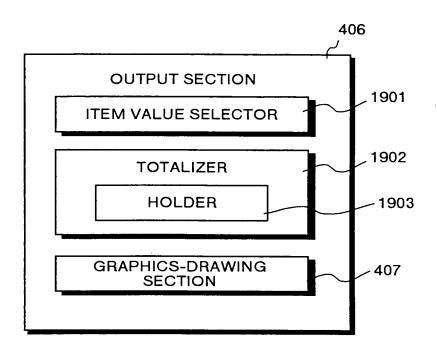
_							
	TOTAL	6	25	21	21	•	1058
0	XYZ3000	0	23	4	-	:	281
1700	KLM1200	1	0	0	0	•••••	134
	DEF1600	1	0	7	0	•••••	194
,	ABC2000	4	2	2	7		87
ÆHICLE	ABC1600 ABC1800 ABC2000 DEF1600 KLM1200 XYZ3000	0	0 .	8	9	••••	135
TYPE OF VEHICLE	ABC1600	3	0	5	7		227
		CLUSTER 1	CLUSTER 2	CLUSTER 3	CLUSTER 4		TOTAL

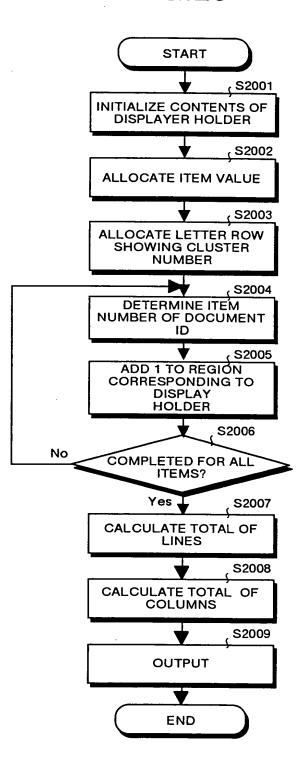
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6 1058 25 21 21 TOTAL XYZ3000 23 281 1700 KLM1200 0 0 0 134 DEF1600 0 0 194 1800 **ABC2000** CELL: ABC2000-CLUSTER 1 DISPLAY ITEM: CONTENTS ABC1800 0 TYPE OF VEHICLE ABC1600 | NUMBER OF DATA: 4 က EXHAUST IS BLACK
EXHAUST IS BLACK
EXHAUST IS BLACK
EXHAUST IS BLACK **CLUSTER 1**

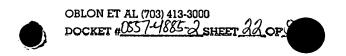
FIG.18

FIG.19

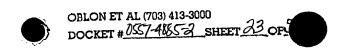




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	5	CLUSTER NUMBER	10		2		P.V	9	∞	\d	¢x	α		G	2	r.	
2101		CONTENTS	LARGE NOISE POLLUTION	EXHAUST IS BLACK	VEHICLE PAINT CHANGES COLOR	OIL LEAKS	HEATER DOES NOT FUNCTION	LARGE NOISE POLLUTION	ENGINE WILL NOT START	OVERHEAT OCCURS	BATTERY IS DEAD	ENGINE WILL NOT START	EXHAUST IS BLACK	RADIO DOES NOT WORK	PAINT IS PEELING	HEATER DOES NOT FUNCTION	
		YEAR	1993	1995	1996	1995	1992	1994	1996	1997	1992	1993	1994	1997	1996	1995	
		TYPE OF VEHICLE	ABC1800	ABC2000	ABC1800	DEF1600	KLM1200	DEF1600	DEF1600	ABC1800	XYZ3000	KLM1200	ABC1600	DEF1600	ABC1800	XYZ3000	
		SALES OFFICE	AICHI	TOYAMA	TOKYO	SAPPORO	FUKUOKA	NOBORIBETSU	NAGANO	TOKYO	TAKAMATSU	NAGASAKI	OSAKA	NAGANO	MORIOKA	SENDAI	
		DATE RECEIVED	1997/3/5	1997/3/5	1997/3/5	1997/3/5	1997/3/5	1997/3/5	1997/3/5	1997/3/5	1997/3/6	1997/3/6	1997/3/6	1997/3/6	1997/3/6	1997/3/6	
		Ŏ.	-	2	က	4	5	9	7	80	6	10	Ξ	12	13	14	



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	TER 3ER	_	-	_	-	-	-	-	_	_	-	7	7	7	7	
	CLUSTER NUMBER	ACK	ACK	ACK	ACK	KS	ACK	ACK	TS	ACK	HEATER DOES NOT FUNCTION	SOLD DUE TO HEATER NOT WORKING	HEATER DOES NOT FUNCTION	HEATER DOES NOT WORK PROPERLY	HEATER DOES NOT FUNCTION	
	CONTENTS	EXHAUST IS BLACK	EXHAUST IS BLACK	EXHAUST IS BLACK	EXHAUST IS BLACK	EXHAUST STINKS	EXHAUST IS BLACK	EXHAUST IS BLACK	EXHAUST SMELLS	EXHAUST IS BLACK	HEATER DOES	COLD DUE TO I	HEATER DOES	HEATER DOES	HEATER DOES	
	YEAR	1995	1994	1996	1995	1992	1994	1996	1997	1992	1995	1997	1997	1995	1995	
	TYPE OF VEHICLE	ABC2000	ABC1600	ABC2000	ABC2000	KLM1200	ABC1600	ABC2000	DEF1600	ABC1600	XYZ3000	XYZ3000	XYZ3000	XYZ3000	XYZ3000	
	SALES OFFICE	TOYAMA	YOKYO	SAPPORO	FUKUOKA	NAGANO	TOKYO	NAGANO	TOKYO	FUKUOKA	SENDAI	NAGANO	NAGANO	SENDAI	NAGANO	
	DATE RECEIVED	1997/3/5	1997/3/6	1997/3/7	1997/3/7	1997/3/8	1997/3/10	1997/3/12	1997/3/14	1997/3/14	1997/3/6	1997/3/7	1997/3/7	1997/3/8	1997/3/8	
	N O	2	=	15	23	35	54	63	73	82	14	18	22	27	37	



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	TER 3ER	-	_	_	-		-	-	_	-	-	2	2	7	7	
	CONTENTS CLUSTER NUMBER	EXHAUST IS BLACK	EXHAUST IS BLACK	EXHAUST IS BLACK	EXHAUST IS BLACK	EXHAUST STINKS	EXHAUST IS BLACK	EXHAUST IS BLACK	EXHAUST SMELLS	EXHAUST IS BLACK	HEATER DOES NOT FUNCTION	COLD DUE TO HEATER NOT WORKING	HEATER DOES NOT FUNCTION	HEATER DOES NOT WORK PROPERLY	HEATER DOES NOT FUNCTION	
	YEAR	1995	1994	1996	1995	1992	1994	1996	1997	1992	1995	1997	1997	1995	1995	
	TYPE OF VEHICLE	ABG2000	ABC1600	ABC2000	AEC2000	KEM1200	ABC1600	AHC200D	DEF1600	ABC1800	XYZ3000	XYZ3000	XYZ3000	XYZ3000	XYZ3000	
2301	SALES (OFFICE	TOYAMA	YOKYO	SAPPORO	FUKUOKA	NAGANO	TOKYO	NAGANO	TOKYO	FUKUOKA	SENDAI	NAGANO	NAGANO	SENDAI	NAGANO	
	DATE RECEIVED	1997/3/5	1997/3/6	1997/3/7	1997/3/7	1997/3/8	1997/3/10	1997/3/12	1997/3/14	1997/3/14	1997/3/6	1997/3/7	1997/3/7	1997/3/8	1997/3/8	
	N O	2	Ξ	15	23	35	54	63	73	82	1	18	22	27	37	V

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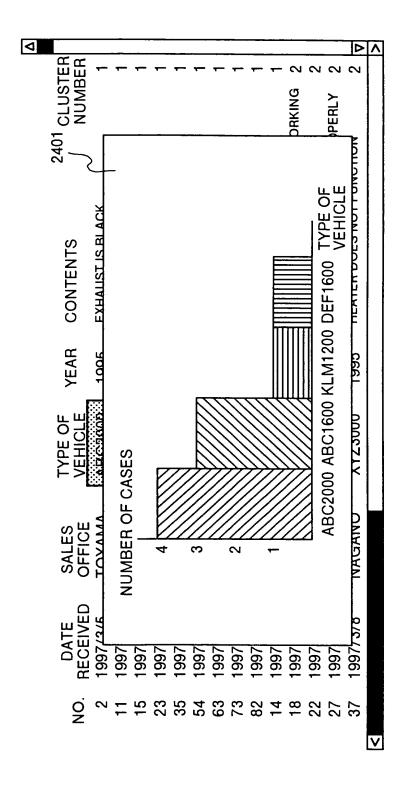
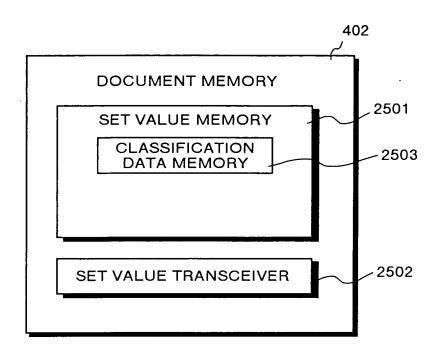
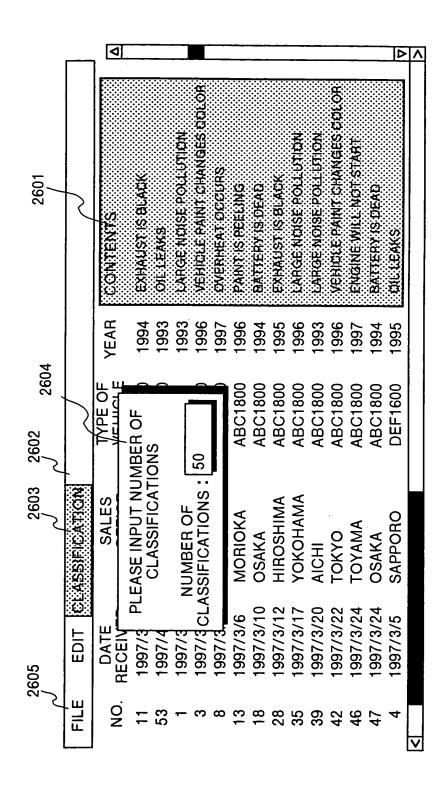




FIG.25



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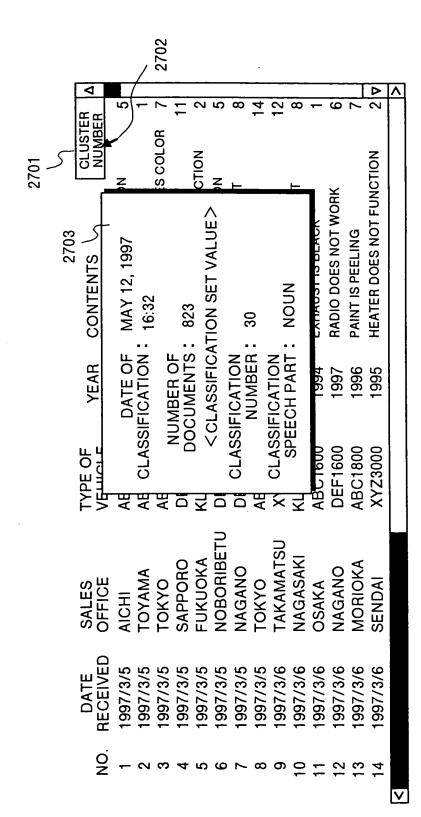
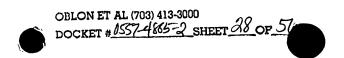


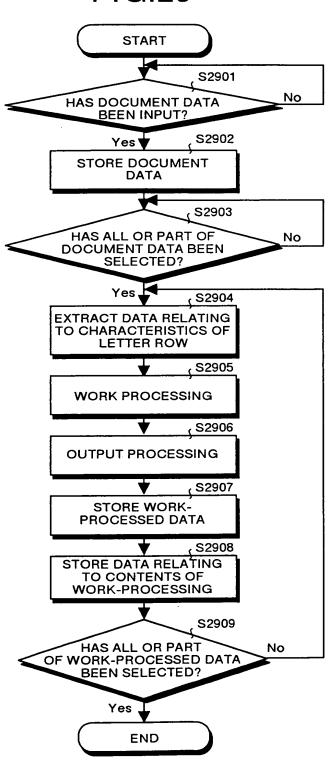
FIG.28



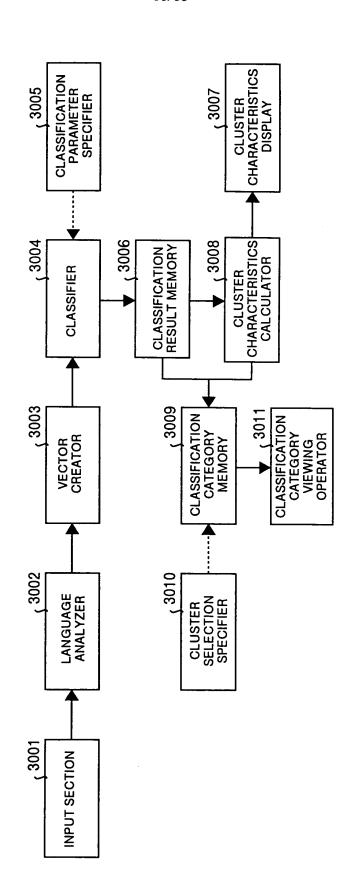
4										-									
CLUSTER A NUMBER	ည	_	7	11	2	2	8	14	12	80	_	9		2			, 1	Δ	^
CONTENTS	LARGE NOISE POLLUTION	EXHAUST IS BLACK	VEHICLE PAINT CHANGES COLOR	OIL LEAKS	HEATER DOES NOT FUNCTION	LARGE NOISE POLLUTION	ENGINE WILL NOT START	OVERHEAT OCCURS	BATTERY IS DEAD	ENGINE WILL NOT START	EXHAUST IS BLACK	RADIO DOES NOT WORK	PAINT IS PEELING	HEATER DOES NOT FUNCTION	7,2802				
YEAR	1993	1995	1996	1995	1992	1994	1996	1997	1992	1993	1994	1997	1996	1995		CCLASS NUMBER			
TYPE OF VEHICLE	ABC1800	ABC2000	ABC1800	DEF1600	KLM1200	DEF1600	DEF1600	ABC1800	XYZ3000	KLM1200	ABC1600	DEF1600	ABC1800	XYZ3000		<u> </u>			
SALES OFFICE	AICHI	TOYAMA	TOKYO	SAPPORO	FUKUOKA	NOBORIBETSU	NAGANO	TOKYO	TAKAMATSU	NAGASAKI	OSAKA	NAGANO	MORIOKA	SENDAI			ASSIFICATION	RESULT 2	
DATE RECEIVED	1997/3/5	1997/3/5	1997/3/5	1997/3/5	1997/3/5	1997/3/5	1997/3/5	1997/3/5	1997/3/6	1997/3/6	1997/3/6	1997/3/6	1997/3/6	1997/3/6		2801	CI ASSIFICATION CI A		
o N	,	2	<u>ო</u>	4	5	9	7	80	6	10	11	12	13	14			CI ASSIF	RESUL	٧

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OBLON ET AL (703) 413-3000

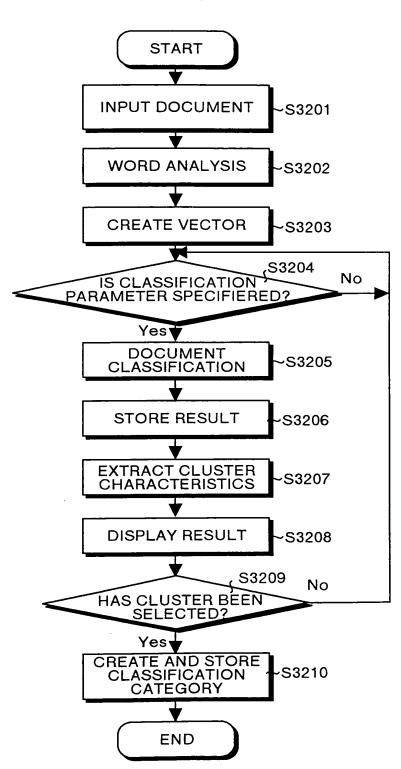
DOCKET #0557-4885-2 SHEET 31 OF 56

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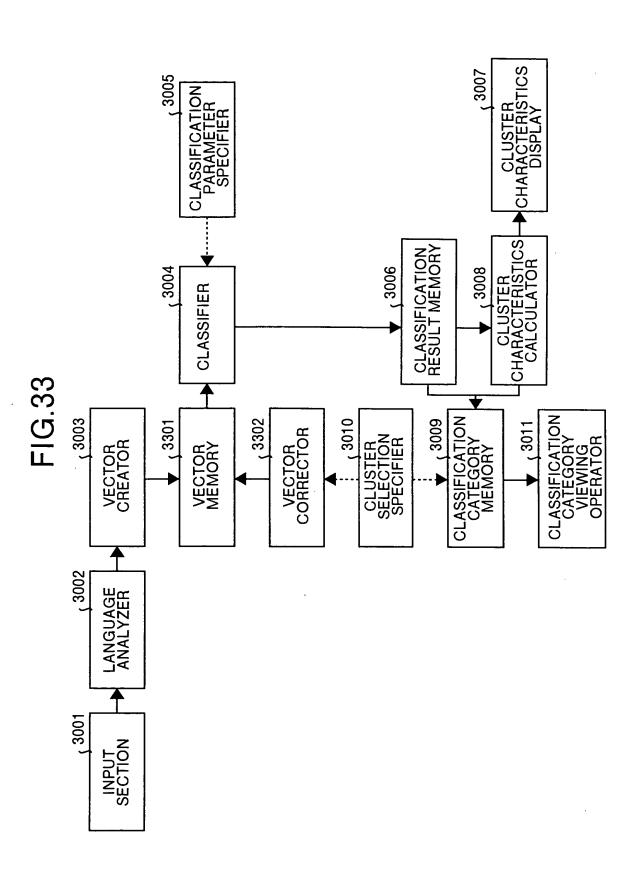
, 3101)1 3102	02 , 3103	3 3104	4 3105
CLUSTER	CLUSTER NUMBER OF ID MEMBERS	WORDS OF HIGH INCIDENCE	DOCUMENT CONTENTS	DEGREE OF RESEMBLANCE TO CENTER
-	248	MANAGER, BUSY,	MUCH SYSTEM MANAGEMENT WORK AND VERY BUSY	0.987
	. 5		BUSY SYSTEM MANAGEMENT AND COSTS CANNOT BE REDUCED	0.965
	3110		WHEN MANAGER IS BUSY, SYSTEM BREAKS DOWN	0.911
			MANAGEMENT DIFFICULT DUE TO SYSTEM BREAKDOWN	0.889
			MANAGEMENT OFFICE IS BUSY DUE TO SYSTEM BREAKDOWN	0.876

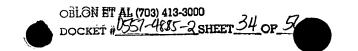
0.969	0.962
SOFTWARE HAS POOR OPERABILITY	DIFFICULT TO REMEMBER SOFTWARE OPERABILITY
8 OPERABILITY, POOR,	
N 149	

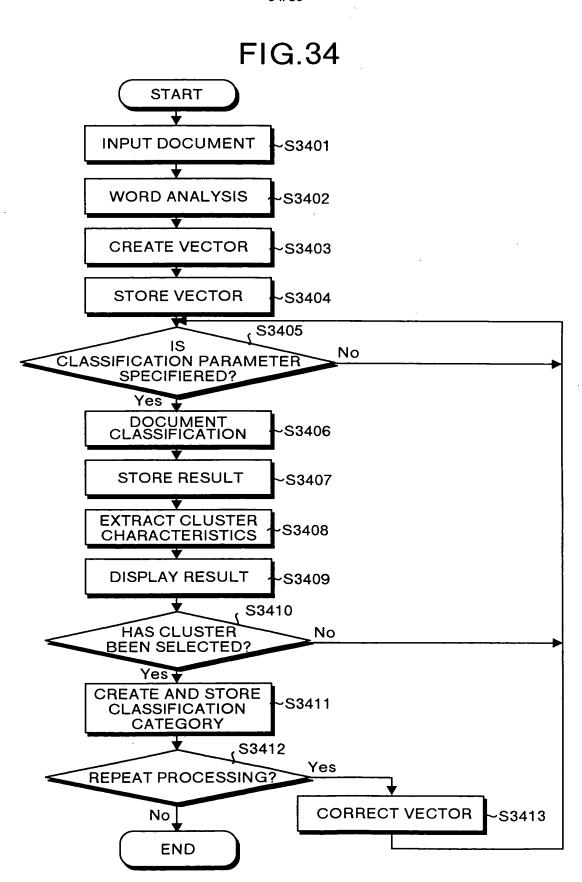
FIG.32



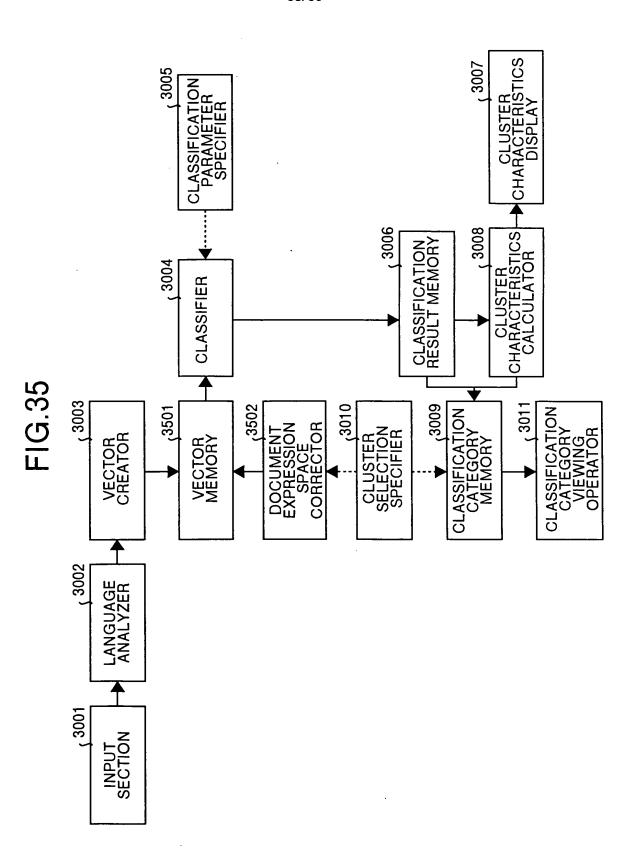
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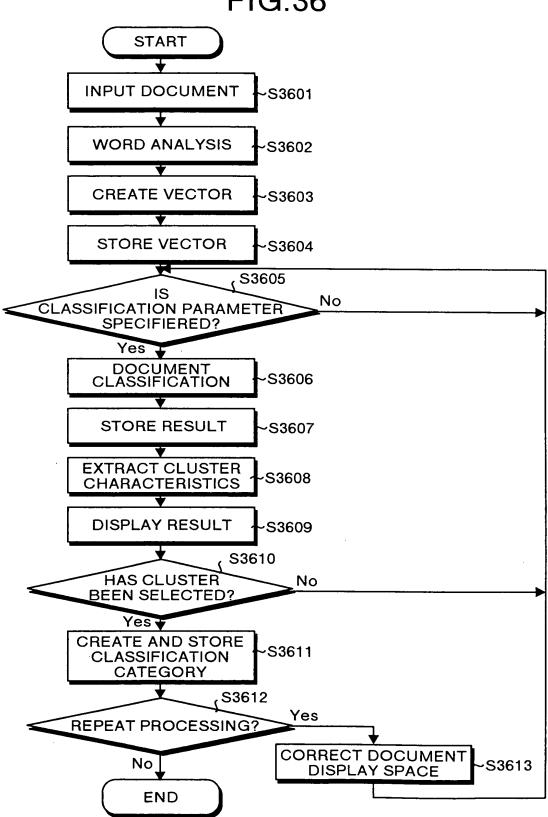


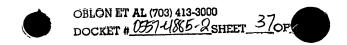
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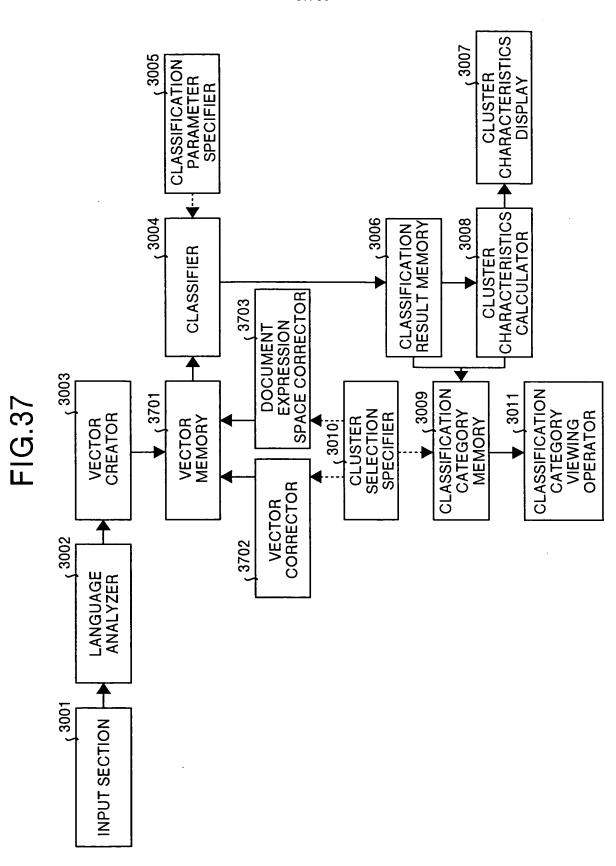
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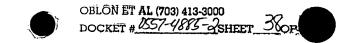
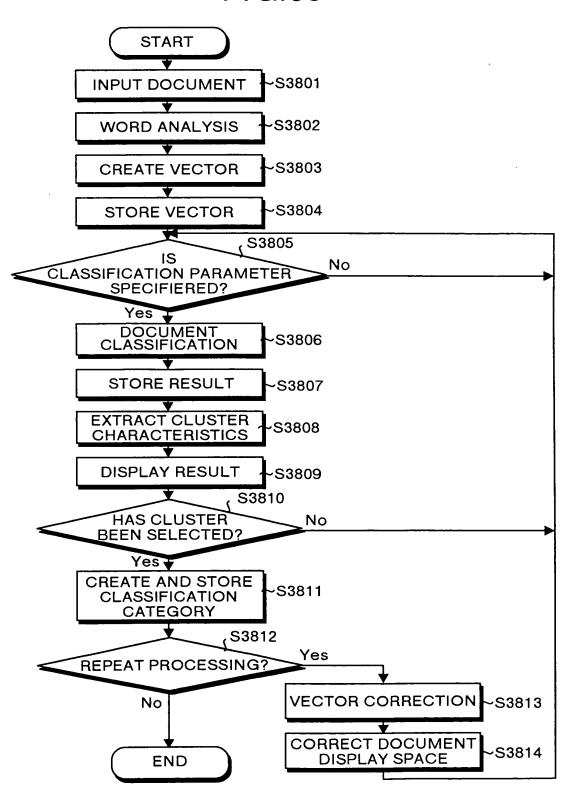
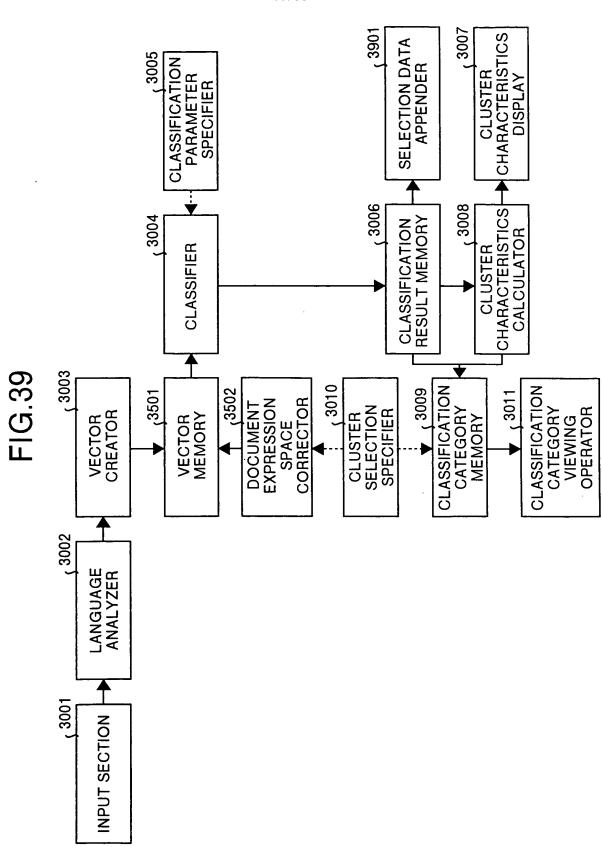


FIG.38

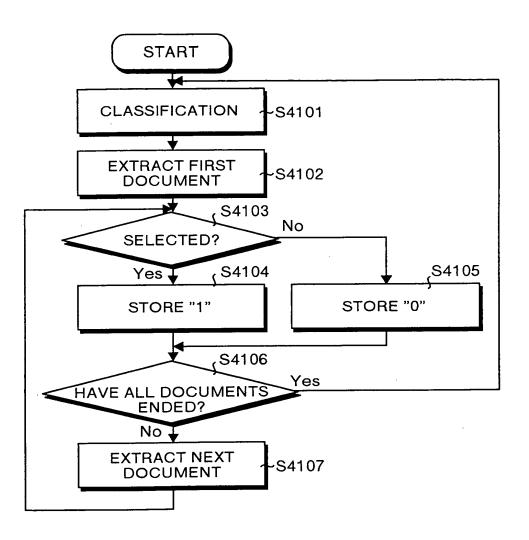




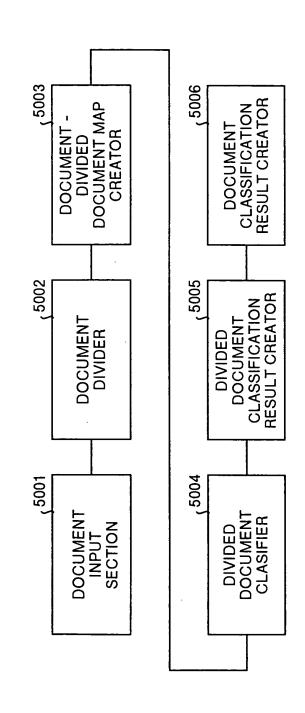


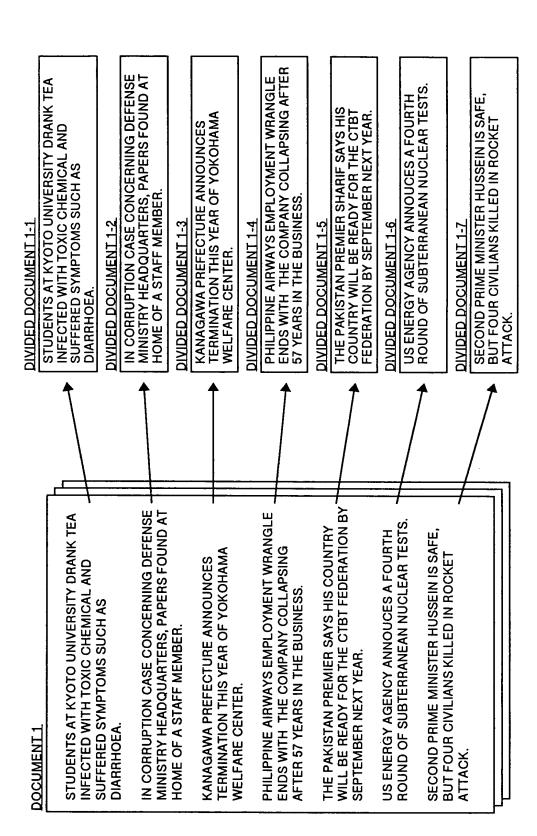
DOCUMENT ID	DOCUMENT SEQUENCE OF CLASSIFICATIONS OF SELECTION ID DATA (1 =SELECTED / 0 = NOT SELECTED)
	[1, 1, 0, 0]
2	[0,0,0,0]
3	[0,1,0,0]
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n-1	[1, 0, 0, 0]
u	[0,0,0,0]

FIG.41



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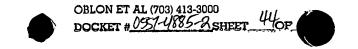
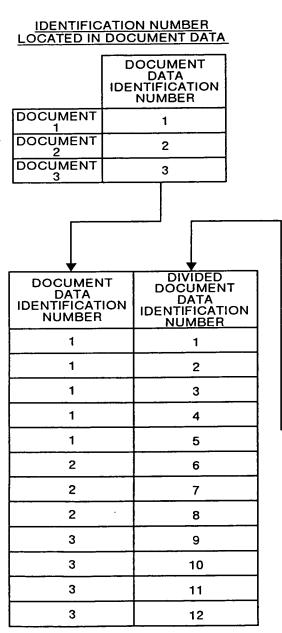


FIG.44



MAP OF DOCUMENT - DIVIDED DOCUMENT ACCORDING TO ID NUMBER

DIVIDED IDENTIFICATION NUMBER LOCATED IN DOCUMENT DATA

		DIVIDED DOCUMENT DATA IDENTIFICATION NUMBER
	DIVIDED DOCUMENT 1	1
	DIVIDED DOCUMENT 2	2
DOCUMENT	DIVIDED DOCUMENT 3	3
1	DIVIDED DOCUMENT 4	4
	DIVIDED DOCUMENT 5	5
	DIVIDED DOCUMENT 6	6.
DOCUMENT 2	DIVIDED DOCUMENT 7	7
	DIVIDED DOCUMENT 8	8
	DIVIDED DOCUMENT 9	9
DOCUMENT	DIVIDED DOCUMENT 10	10
3	DIVIDED DOCUMENT 11	11
	DIVIDED DOCUMENT 12	12

FIG.45

IDENTIFICATION NUMBER LOCATED IN DOCUMENT DATA

	DIVIDED DOCUMENT DATA IDENTIFICATION NUMBER	DIVIDED DOCUMENT DATA CHARACTERISTICS VECTOR
DIVIDED DOCUMENT 1	1	(1,1,1)
DIVIDED DOCUMENT 2	2	(5,5,5)
DIVIDED DOCUMENT 3	3	(3,2,4)
DIVIDED DOCUMENT 4	4	(3,2,3)
DIVIDED DOCUMENT 5	5	(5,4,6)
DIVIDED DOCUMENT 6	6	(1,2,1)
DIVIDED DOCUMENT 7	7	(1,0,1)
DIVIDED DOCUMENT 8	8	(5,4,5)
DIVIDED DOCUMENT 9	9	(2,2,4)
DIVIDED DOCUMENT 10	10	(2,1,1)
DIVIDED DOCUMENT 11	11	(4,4,6)
DIVIDED DOCUMENT 12	12	(5,5,6)

RESULT OF DIVIDING DIVIDED DOCUMENT DATA INTO THREE CATEGORIES

DOCUMENT CLASSIFICATION (USING CLUSTER VANALYSIS)

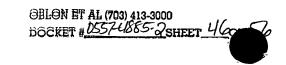
		DIVIDED DOCUMENT DATA IDENTIFICATION NUMBER	CLASSIFICATION CATEGORY	DISTANCE TO REPRESENTATIVE VALUE OF RELEVANT CATEGORY
DIVIDED DOCUMENT	1	1	CATEGORY 1	0.25
DIVIDED DOCUMENT	2	2	CATEGORY 3	0.87
DIVIDED DOCUMENT	3	3	CATEGORY 2	0.48
DIVIDED DOCUMENT	4	4	CATEGORY 2	0.74
DIVIDED DOCUMENT	5	5	CATEGORY 3	0.54
DIVIDED DOCUMENT	6	6	CATEGORY 1	1.03
DIVIDED DOCUMENT	7	7	CATEGORY 1	1.03
DIVIDED DOCUMENT	8	8	CATEGORY 3	0.70
DIVIDED DOCUMENT	9	9	CATEGORY 2	0.74
DIVIDED DOCUMENT 1	10	10	CATEGORY 1	0.75
DIVIDED DOCUMENT 1	11	11	CATEGORY 3	0.94
DIVIDED DOCUMENT 1	12	12	CATEGORY 3	0.83

DATA REPRESENTING CLASSIFICATION CATEGORY

	REPRESENTATIVE VALUE (CENTER OF RELEVANT DIVIDED DOCUMENT DATA)	NUMBER OF RELEVANT DATA
CATEGORY 1	(1.25, 1.00, 1.00)	4
CATEGORY 2	(2.66, 2.00, 3.66)	3
CATEGORY 3	(4.80, 4.00, 5.60)	5

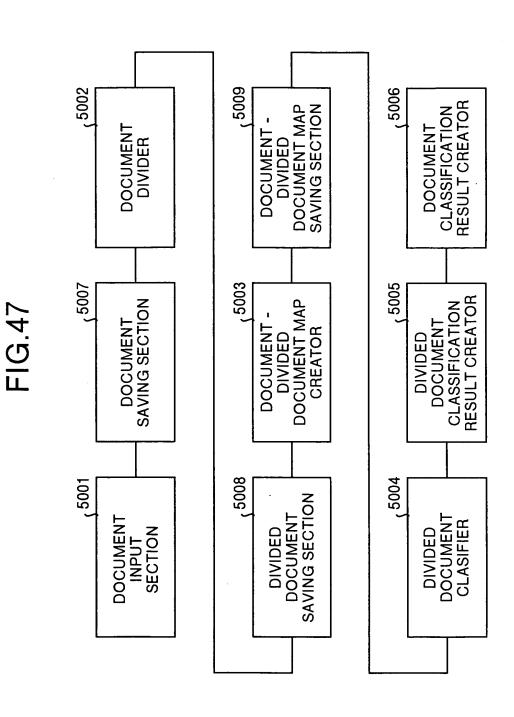
DISTANCE BETWEEN CLASSIFICATION CATEGORIES

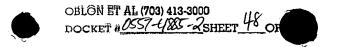
	CATEGORY 2	CATEGORY 3
CATEGORY 1	3.17	6.68
CATEGORY 2		3.69



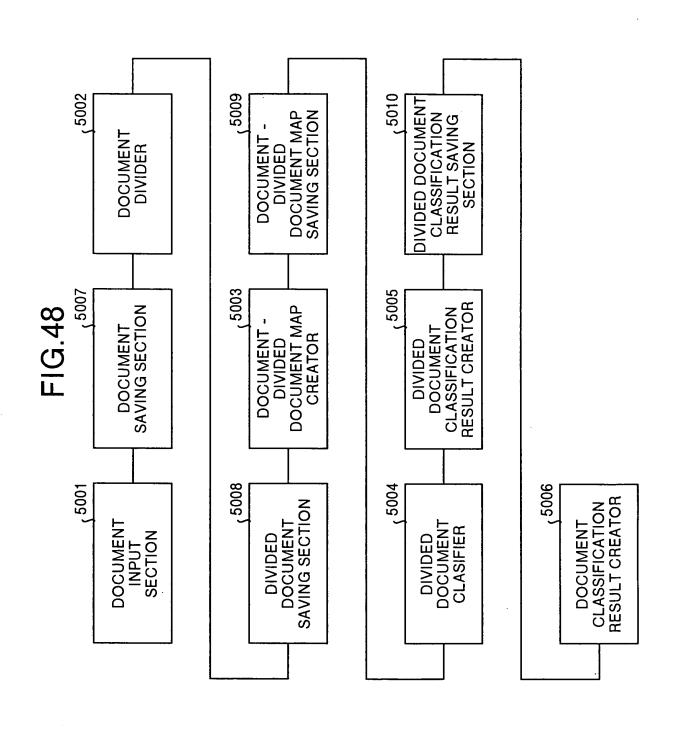
CI ASSIGNATION INCIDED	ואוטן	DECEDE OF	DEI EVANT	ABEA OCCIDEN	BEI ATIVE	BESEMBI ANCE
CATEGORY	DOCUMENT	RESEMBLANCE	DOCUMENT	BY DOCUMENT	POSITION	RANKING
CATEGORY 1	DOCUMENT 1	0.25	DOCUMENT 1	1/5	1/5	-
CATEGORY 1	DOCUMENT 6	1.03	DOCUMENT 2	2/3	1/3	က
CATEGORY 1	DOCUMENT 7	1.03	DOCUMENT 2	2/3	2/3	3
CATEGORY 1	DOCUMENT 10	0.75	DOCUMENT 3	1/4	2/4	2
CATEGORY 2	DOCUMENT 3	0.48	DOCUMENT 1	2/5	3/2	-
CATEGORY 2	DOCUMENT 4	0.74	DOCUMENT 2	2/5	4/5	2
CATEGORY 2	DOCUMENT 9	0.74	DOCUMENT 3	1/4	1/4	2
CATEGORY 3	DOCUMENT 2	0.87	DOCUMENT 1	2/5	5/2	4
CATEGORY 3	DOCUMENT 5	0.54	DOCUMENT 1	2/5	2/2	•
CATEGORY 3	DOCUMENT 8	0.70	DOCUMENT 2	1/3	3/3	2
CATEGORY 3	DOCUMENT 11	0.94	DOCUMENT 3	2/4	3/4	4
CATEGORY 3	DOCUMENT 12	0.83	DOCUMENT 3	2/4	4/4	က

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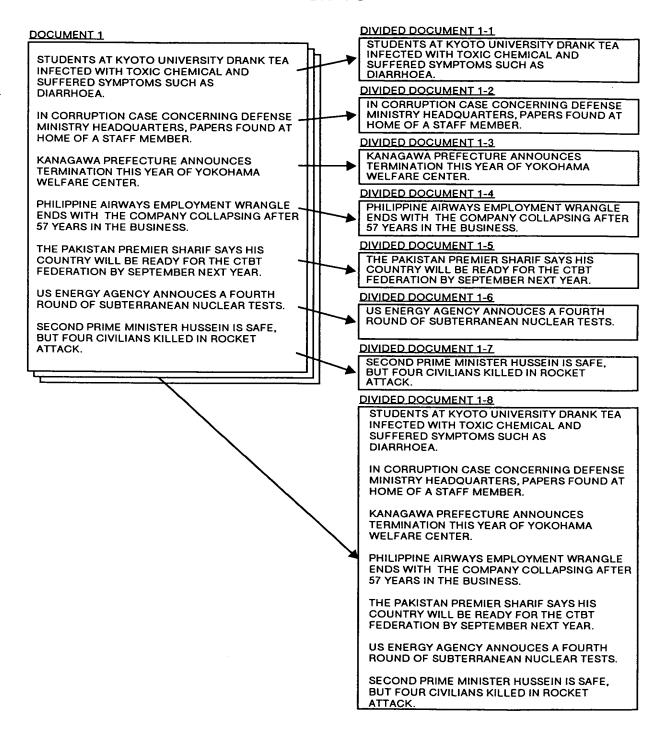


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OBLON ET AL (703) 413-3000 DOCKET # 0557-4885-2 SHEET 49 OF 57

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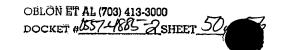


FIG.50

DOCUMENT DATA

- STUDENTS AT KYOTO UNIVERSITY DRANK TEA INFECTED WITH TOXIC CHEMICAL AND SUFFERED SYMPTOMS SUCH AS DIARRHOEA.
- IN CORRUPTION CASE CONCERNING DEFENSE MINISTRY HEADQUARTERS, PAPERS FOUND AT HOME OF A STAFF MEMBER.
- KANAGAWA PREFECTURE ANNOUNCES TERMINATION THIS YEAR OF YOKOHAMA WELFARE CENTER.
- PHILIPPINE AIRWAYS EMPLOYMENT WRANGLE ENDS WITH THE COMPANY COLLAPSING AFTER 57 YEARS IN THE BUSINESS.
- THE PAKISTAN PREMIER SHARIF SAYS HIS COUNTRY WILL BE READY FOR THE CTBT FEDERATION BY SEPTEMBER NEXT YEAR.
- US ENERGY AGENCY ANNOUCES A FOURTH ROUND OF SUBTERRANEAN NUCLEAR TESTS.
- · SECOND PRIME MINISTER HUSSEIN IS SAFE, BUT FOUR CIVILIANS KILLED IN ROCKET ATTACK.

HTML FORMAT

HTML>
HEAD>

META NAME="GENERATOR" CONTENT="Claris Home Page 2.

OJ" OJ*,

*META HTTP-EQUIV="CONTENT-TYPE" CONTENT="text/html;

charset=Shift JIS*,

*X=SAS=WINDOW TOP=64 BOTTOM=769 LEFT=224 RIGHT=6
58,

*AHEAD,

*BODY,

*BODY,

48001 ; 4P; 4P; 4P; NEWS TOPIC (98/09/25)

CULS TUDENTS AT KYOTO UNIVERSITY DRANK TEA INFECTED WITH TOXIC CHEMICAL AND SUFFERED SYMPTOMS SUCH AS DIARRHOEA. (/Li)

LINN CORRUPTION CASE CONCERNING DEFENSE MINISTRY HEADQUARTERS, PAPERS FOUND AT HOME OF A STAFF MEMBER. (/LI)

(LI)KANAGAWA PREFECTURE ANNOUNCES TERMINATION THIS YEAR OF YOKOHAMA WELFARE CENTER.(/LI)

«LI) PHILIPPINE AIRWAYS EMPLOYMENT WRANGLE ENDS WITH&NBSP: THE COMPANY COLLAPSING AFTER 57 YEARS IN THE BUSINESS.«/LI)

(LI) THE PAKISTAN PREMIER SHARIF SAYS HIS COUNTRY WILL BE READY FOR THE CTBT FEDERATION BY SEPTEMBER NEXT YEAR. (/LI)

«LI» US ENERGY AGENCY ANNOUCES A FOURTH ROUND OF SUBTERRANEAN NUCLEAR TESTS. «/LI»

«LISECOND PRIME MINISTER HUSSEIN IS SAFE, BUT FOUR CIVILIANS KILLED IN ROCKET ATTACK. (/LI) «/UL)

DIVISION OF DOCUMENT DATA

CONVERT TEXT WITH TAG (LI) INTO ONE DIVIDED DOCUMENT DATA

DIVIDED DOCUMENT DATA

DIVIDED DOCUMENT 1

STUDENTS AT KYOTO UNIVERSITY DRANK TEA INFECTED WITH TOXIC CHEMICAL AND SUFFERED SYMPTOMS SUCH AS DIARRHOEA

DIVIDED DOCUMENT 3

KANAGAWA PREFECTURE ANNOUNCES TERMINATION THIS YEAR OF YOKOHAMA WELFARE CENTER.

DIVIDED DOCUMENT 5

THE PAKISTAN PREMIER SHARIF SAYS HIS COUNTRY WILL BE READY FOR THE CTBT FEDERATION BY SEPTEMBER NEXT YEAR.

DIVIDED DOCUMENT 7

SECOND PRIME MINISTER HUSSEIN IS SAFE, **BUT FOUR CIVILIANS KILLED IN ROCKET** ATTACK

DIVIDED DOCUMENT 2

IN CORRUPTION CASE CONCERNING DEFENSE MINISTRY HEADQUARTERS, PAPERS FOUND AT HOME OF A STAFF MEMBER.

DIVIDED DOCUMENT 4

PHILIPPINE AIRWAYS EMPLOYMENT WRANGLE ENDS WITH THE COMPANY COLLAPSING AFTER 57 YEARS IN THE BUSINESS.

DIVIDED DOCUMENT 6

US ENERGY AGENCY ANNOUCES A FOURTH ROUND OF SUBTERRANEAN NUCLEAR TESTS.

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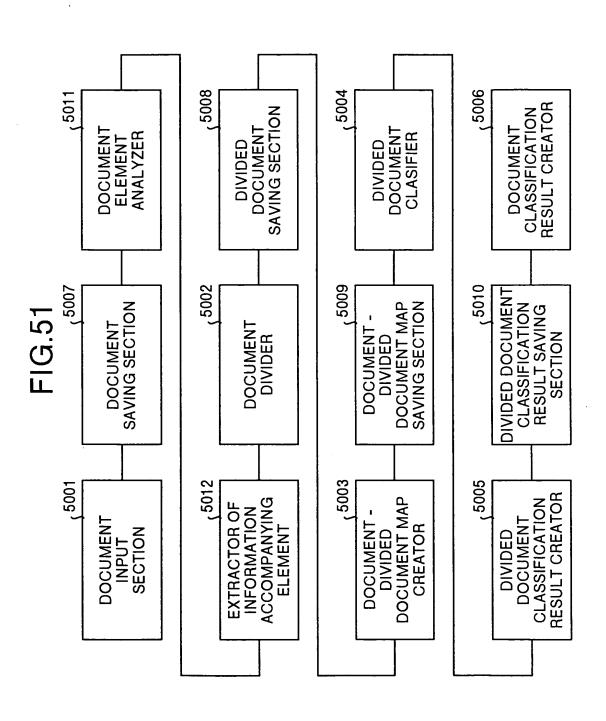


FIG.52

DOCUMENT DATA NEWS TOPIC (98/10/25) "TOPIC" + NUMBER + RETURN SYMBOL STUDENTS AT KYOTO UNIVERSITY DRANK TEA INFECTED WITH TOXIC CHEMICAL AND SUFFERED SYMPTOMS SUCH AS DIARRHOEA. TOPIC2 IN CORRUPTION CASE CONCERNING DEFENSE MINISTRY HEADQUARTERS, PAPERS FOUND AT HOME OF A STAFF MEMBER. TOPIC3 KANAGAWA PREFECTURE ANNOUNCES TERMINATION THIS YEAR OF YOKOHAMA WELFARE CENTER. TOPIC4 PHILIPPINE AIRWAYS EMPLOYMENT WRANGLE ENDS WITH THE COMPANY COLLAPSING AFTER 57 YEARS IN THE BUSINESS. TOPIC5 THE PAKISTAN PREMIER SHARIF SAYS HIS COUNTRY WILL BE READY FOR THE CTBT FEDERATION BY SEPTEMBER NEXT YEAR. DOCUMENT END SYMBOL • NATURAL LANGUAGE PROCESSING EXTRACT NOUN ("TOPIC" AND NUMBER) AND RETURN SYMBOL EXTRACT POSITIONS OF NOUN ("TOPIC" AND NUMBER) AND RETURN SYMBOL WITHIN DOCUMENT DETECT POSITION OF LETTER ROW OF "TOPIC" + NUMBER + **RETURN SYMBOL** DIVISION OF DOCUMENT DATA WITH "TOPIC" + NUMBERS + RETURN SYMBOL AS THE HEADER, DEEM A LETTER ROW COMPRISING "TOPIC" + NUMBERS + RETURN SYMBOL, OR A LETTER ROW SURROUNDED BY A DOCUMENT END SYMBOL, AS ONE DIVIDED DOCUMENT DATA

DIVIDED DOCUMENT DATA DIVIDED DOCUMENT 1

STUDENTS AT KYOTO UNIVERSITY DRANK TEA INFECTED WITH TOXIC CHEMICAL AND SUFFERED SYMPTOMS SUCH AS DIARRHOEA.

DIVIDED DOCUMENT 3

KANAGAWA PREFECTURE ANNOUNCES TERMINATION THIS YEAR OF YOKOHAMA WELFARE CENTER.

DIVIDED DOCUMENT 5

THE PAKISTAN PREMIER SHARIF SAYS HIS COUNTRY WILL BE READY FOR THE CTBT FEDERATION BY SEPTEMBER NEXT YEAR.

DIVIDED DOCUMENT 2

IN CORRUPTION CASE CONCERNING DEFENSE MINISTRY HEADQUARTERS, PAPERS FOUND AT HOME OF A STAFF MEMBER.

DIVIDED DOCUMENT 4

PHILIPPINE AIRWAYS EMPLOYMENT WRANGLE ENDS WITH THE COMPANY COLLAPSING AFTER 57 YEARS IN THE BUSINESS.

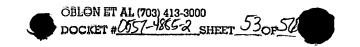
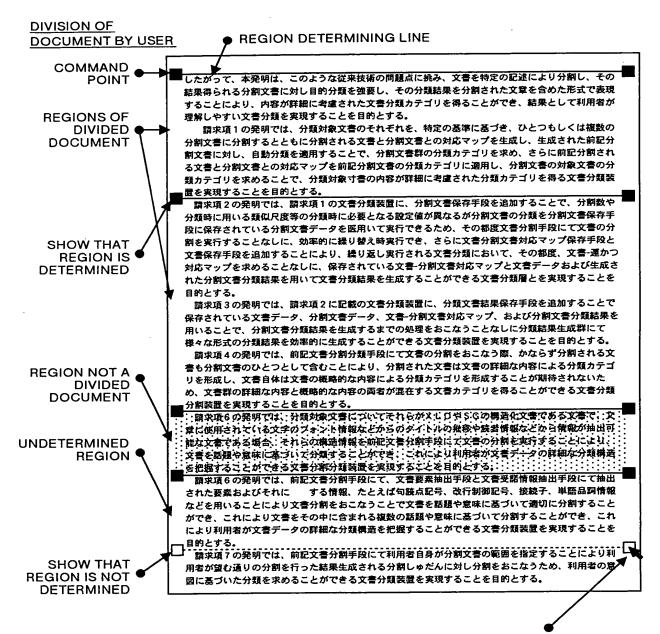


FIG.53



MOVE UP AND DOWN
BY DRAGGING
COMMAND POINT

FIG.54

DIVISION ACCORDING TO NUMBER OF LETTERS AND NUMBER OF SENTENCES

DOCUMENT DATA

ユーザの意図を反映するような文書分類をおこなうためのひとつの方法とし、て 前記表現空間変換関数により構成される空間における不必要な特徴次元や、悪影 響を及ぼすような特徴次元に対し削除や合成をおこなったり逆にある特徴次元を 強要させるための操作をすることが考えられる。しかし、前記表現空間変換開数 により生成される空間の特徴次元は、前記文書群解析部にて抽出される単語のう ち意味的に似たものが複数連合したものと考えられることができるため、各特徴 次元の意味的な解釈はきわめて複雑かつ多義的なものであるため、ユーザに各特 微次元の意味を提示することはきわめて難しい。 そこで、ユーザに分類させたく ない内容や強要したい内容を持つ文章や単語などを指定させ、それらを前記表現 空間辺関数により構成される空間に適切に射影し、それらと類似度の高い特徴次 元や低い特徴次元を判別することで、操作をおこなう特徴次元を選択することが 考えられる。ここでは、前記表現空間変換関数の特徴次元を操作する側として、 ユーザが指定するある文書と類似度の高い特徴次元の削除をおこなう側を示す。 ユーザにとり、指定された文書を前記文書特徴ベクトルと同じ次元を持つベクト ルで表現し、その文書ベクトルに前記表現空間変換関数を適用し文書ベクトルを 前記表現空間変換関数により構成される空間へ射影する。そして、この射影され た文書ベクトルと各特徴次元との類似度を算出することで、類似度の高い特徴次 元を判別する。このとき、類似度を測るための尺度としては、余弦尺度、内戚尺 度、ユークリッド距離尺度などを用いることができる。また、判別に関しては、 ある類似度以上を削除対象として採用するような閾値処理による判別、類似度の 高い層にある一定数を削除対象として採用する定数処理、もしくは判別分析など も用いることができる。このようにして、採用された特徴次元を前配表現空間変 換関数から削除することで前記表現空間変換関数を修正することができる。

DIVISION OF DOCUMENT DATA

REGION FROM 200TH LETTER AFTER THE HEADER TO THE NEAREST BREAK BEFORE OR AFTER IS DEEMED A DIVIDED DOCUMENT

DIVIDED DOCUMENT 1

ユーザの意図を反映するような文書分類をおこなうためのひとつの方法とし、て前配表現空間変換関数により構成される空間における不必要な特徴次元や、悪影響を及ぼすような特徴次元に対し削除や合成をおこなったり逆にある特徴次元を強要させるための操作をすることが考えられる。しかし、前配表現空間変換関数により生成される空間の特徴次元は、前配文書群解析部にて抽出される単語のうち意味的に似たものが複数連合したものと考えられることができるため、各特徴次元の意味的な解釈はきわめて複雑かつ多義的なものであるため、ユーザに各特徴次元の意味を提示することはきわめて難しい。

DIVIDED DOCUMENT 2

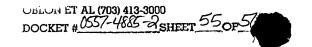
そこで、ユーザに分類させたくない内容や強要したい内容を持つ文章や単語などを指定させ、それらを前配表現空間辺関数により構成される空間に適切に射影し、それらと類似度の高い特徴次元や低い特徴次元を判別することで、操作をおこなう特徴次元を選択することが考えられる。ここでは、前記表現空間変換関数の特徴次元を操作する側として、ユーザが指定するある文書と類似度の高い特徴次元の削除をおこなう側を示す

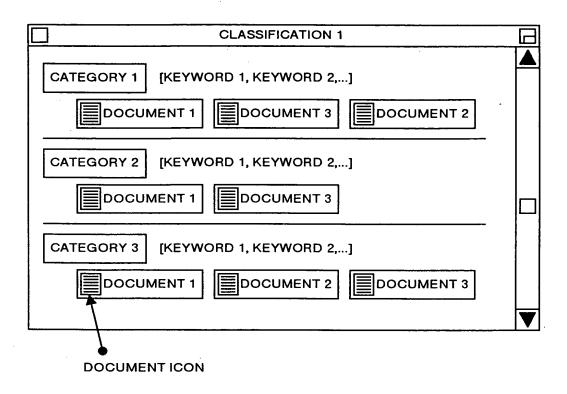
DIVIDED DOCUMENT 3

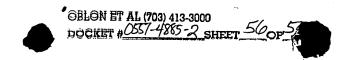
ユーザにとり、指定された文書を前記文書特徴ベクトルと同じ次元を持つベクトルで表現し、その文書ベクトルに前記表現空間変換 関数を適用し文書ベクトルを前記表現空間変換関数により構成される空間へ射影する。そして、この射影された文書ベクトルと各特 徴次元との類似度を算出することで、類似度の高い特徴次元を判別する。このとき、類似度を測るための尺度としては、余弦尺度、 内成尺度、ユークリッド距離尺度などを用いることができる。

DIVIDED DOCUMENT 4

また、判別に関しては、ある類似度以上を削除対象として採用するような閾値処理による判別、類似度の高い層にある一定数を削除 対象として採用する定数処理、もしくは判別分析なども用いることができる。このようにして、採用された特徴次元を前配表現空間 変換関数から削除することで前配表現空間変換関数を修正することができる。







CLASSIFICATION 2	
CATEGORY 1 [KEYWORD 1, KEYWORD 2,]	
DOCUMENT 1 DIVIDED DOCUMENT ICON	
DOCUMENT 3	
DOCUMENT 2 DOCUMENT ICON	
DOCUMENT 2 RESEMBLANCE RANKING	
CATEGORY 2 [KEYWORD 1, KEYWORD 2,]	
DOCUMENT 1	
DOCUMENT 1 2	
DOCUMENT 3	
CATEGORY 3 [KEYWORD 1, KEYWORD 2,]	
DOCUMENT 1	
DOCUMENT 2	
DOCUMENT 3	•
DOCUMENT 1 2	
DOCUMENT 3 2	